MAC™ 800

Solar for Innovators

Maximize AC Power Output

The high-performance MAC-800 dual unit microinverter is engineered for maximum AC power output when paired with Aptos Solar Technology's high-power solar panels. The MAC-800 is built for simple system integration and is compatible with third- party devices.

The MAC-800 is equipped and ready for system monitoring and trend tracking through Aptos Solar Technology's cloud based software.

In compliance with CA Rule 21 (UL 1741-SA), IEEE® 1547:2018 (UL 1741-SB 3rd Ed.)

High-performance 2:1 Microinverter

Up to 800W

Maximum AC Power Output

- Up to 800W
- 10% more AC power output than competing products

Superior Long-term Reliability

- Industry leading 25-year warranty
- Over 2GW of microinverters deployed across 28 countries
- NEMA6 (IP67) enclosure rated for protection in harsh outdoor conditions

Streamlined Installation

- Seperate trunk cables
- Compatible with 120 & 144 cell PV panels
- Battery integration ready

Built for Safety

- Built-in rapid shutdown feature in compliance with National Electrical Code (NEC)
- 6,000V surge protection feature

Accessories

AC Trunk Cable, 12/10 AWG Cable

AC Trunk Connector

AC Trunk Port Cap

AC Connector Cap - M

AC Trunk Port Disconnect Tool

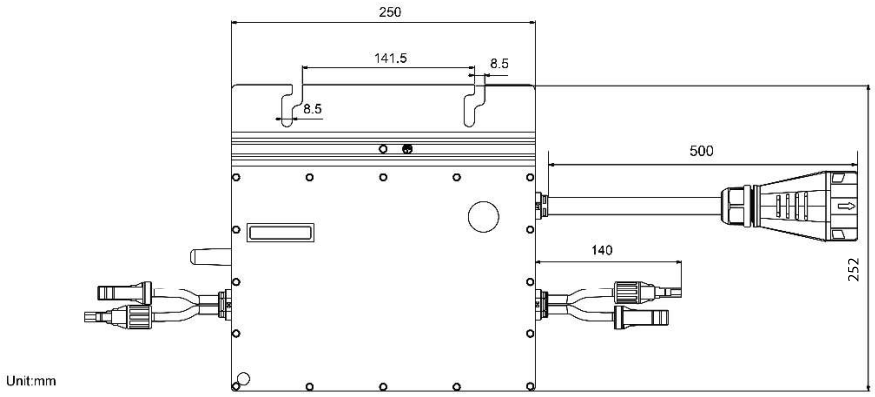
DC Extension Cable
(Not Provided by Aptos)

AC Trunk Connector Unlock Tool

aptos
solar technology

MAC™ 800

Solar for Innovators



Input Data (DC)

Commonly used module power (W)	320W-540W+
Maximum input voltage(V)	60
MPPT voltage range(V)	16-60
Start-up voltage(V)	22
Max Input Current (Isc)[4]	2 X 20A

Mechanical Data

Ambient temperature range (℃)	-40 to +65
Dimensions (W X H X D mm)	250 X 252 X 28
Weight (kG)	2.6
Enclosure rating	Outdoor-NEMA (IP67)
Cooling	Natural convection - No fans

Output Data (AC)

Peak output power(VA)	800	
Maximum continuous output power(VA)	766	
Maximum continuous output current (A)	3.19	3.68
Nominal output voltage/range(V)[1]	240/211-264	208/183-228
Nominal frequency/range (Hz)[1]	60/55-65	
Power factor (adjustable)	>0.99 default 0.8 leading...0.8 lagging	
Total harmonic distortion	<3%	
Maximum units per branch[2]	5/4	

Efficiency

CEC peak efficiency	96.7%
CEC weighted efficiency	96.5%
Nominal MPPT efficiency	99.8%
Nighttime power consumption (mW)	<50

Loading Quantity

Container	1 X 20'GP	1 X 40'GP/1 X 40'HQ
Pallet No.	10	22
Carton No.	480	1008
Total quantity	2400	5040

Features

Communication	2.4GHz Proprietary RF(Nordic)
Monitoring	AST Cloud
Warranty	25 Years
Compliance	UL 1741, IEEE 1547, UL 1741 SA (240Vac), UL1741 SB (208Vac and 240Vac), CA Rule 21 (240Vac), CSA C22.2 No.107.1-16, FCC Part 15B, FCC Part 15C
PV Rapid Shutdown	Conforms with NEC-2017 and NEC-2020 Article 690.12 and CEC-2021 Sec 64-218 Rapid Shutdown of PV Systems

*1Nominal voltage/frequency range can be changed due to the requirements of local power department.
*2 Refer to local requirements for exact number of microinverters per branch.
*3 Aptos Monitoring System.
*4 Designed Compatible for M10 Cell Technology

8207 Callaghan Rd. Ste 100
San Antonio, TX 78230
www.aptossolar.com l info@aptossolar.com

Aptos Solar Technology reserves the right to make specification changes without notice

aptos™ solar technology